

02/15/01

02-16-01

A

PTO/SB/05 (08-00)

Please type a plus sign (+) inside the box → ☐

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

|                        |                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------|
| Attorney Docket No.    | I-2-156.2US                                                                                                    |
| First Inventor         | Misra et al.                                                                                                   |
| Title                  | MULTI-USER DETECTION USING AN ADAPTIVE COMBINATION OF JOINT DETECTION AND SUCCESSIVE INTERFERENCE CANCELLATION |
| Express Mail Label No. | EL750966957US                                                                                                  |

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
- ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
- ☒ Specification [Total Pages  ]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets  ]
- Oath or Declaration [Total Pages  ]
  - ☒ Newly executed (original or copy)
  - ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 17 completed)
    - ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

- ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - ☐ Computer Readable Form (CRF)
  - Specification Sequence Listing on:
    - ☐ CD-ROM or CD-R (2 copies); or
    - ☐ paper
  - ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

- ☐ Assignment Papers (cover sheet & document(s))
- ☐ 37 CFR 3.73(b) Statement of Power of Attorney (when there is an assignee)
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement (IDS)/PTO-1449
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
- ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
- ☒ Other: Communication Re Order of Applicants

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_

Prior application information:

Examiner: \_\_\_\_\_

Group / Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 18. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label

24374  
(Insert Customer No. or Attach bar code label here)

or ☐ Correspondence address below

|         |                        |          |  |
|---------|------------------------|----------|--|
| Name    | VOLPE AND KOENIG, P.C. |          |  |
|         | DEPT ICC               |          |  |
| Address |                        |          |  |
| City    | State                  | Zip Code |  |
| Country | Telephone              | Fax      |  |

|                   |                              |                                   |              |
|-------------------|------------------------------|-----------------------------------|--------------|
| Name (Print/Type) | Jeffrey M. Glabicki, Esquire | Registration No. (Attorney/Agent) | 42,584       |
| Signature         | Jeffrey M. Glabicki          |                                   | Date 2/15/01 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Volpe and Koerper, P.C. Revision of

PTO/SB/17 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL  
for FY 2001**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$ 1040.00)

**Complete if Known**

|                      |               |
|----------------------|---------------|
| Application Number   | Not Yet Known |
| Filing Date          | Not Yet Known |
| First Named Inventor | Misra et al.  |
| Examiner Name        | Not Yet Known |
| Group Art Unit       | Not Yet Known |
| Attorney Docket No.  | I-2-156.2US   |

PTO  
09/783192  
U.S. PATENT AND TRADEMARK OFFICE

02/15/01

**METHOD OF PAYMENT**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit  
Account  
Number  
Deposit  
Account  
Name

09-0435

InterDigital Comm. Corp.

- ☒
- Charge Any Deficiency or Credit any Overpayment in the Total Fees Associated with this Communication

☐ Applicant claims small entity status.  
See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Fee Fee Fee Fee Description

Code (\$) Code (\$) Code (\$) Code (\$)

|     |     |     |     |                        |     |
|-----|-----|-----|-----|------------------------|-----|
| 101 | 710 | 201 | 355 | Utility filing fee     | 710 |
| 106 | 320 | 206 | 160 | Design filing fee      |     |
| 107 | 490 | 207 | 245 | Plant filing fee       |     |
| 108 | 710 | 208 | 355 | Reissue filing fee     |     |
| 114 | 150 | 214 | 75  | Provisional filing fee |     |

SUBTOTAL (1) (\$ 710.00)

**2. EXTRA CLAIM FEES**

| Total Claims       |      | Extra Claims |   | Fee from below |   | Fee Paid |  |
|--------------------|------|--------------|---|----------------|---|----------|--|
| 25                 | - 20 | 5            | x | 18             | = | 90       |  |
| 6                  | - 3  | 3            | x | 80             | = | 240      |  |
| Multiple Dependent |      |              |   | 270            | = | 0        |  |

Large Entity Small Entity

Fee Fee Fee Fee Fee Description

Code (\$) Code (\$) Code (\$) Code (\$)

|     |     |     |     |                                                            |  |
|-----|-----|-----|-----|------------------------------------------------------------|--|
| 103 | 18  | 203 | 9   | Claims in excess of 20                                     |  |
| 102 | 80  | 202 | 40  | Independent claims in excess of 3                          |  |
| 104 | 270 | 204 | 135 | Multiple dependent claim, if not paid                      |  |
| 109 | 80  | 209 | 40  | ** Reissue independent claims over original patent         |  |
| 110 | 18  | 210 | 9   | ** Reissue claims in excess of 20 and over original patent |  |

SUBTOTAL (2) (\$ 330.00)

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

| Large Entity Fee Code | Small Entity Fee Code | Fee Description | Fee Paid |                                                                            |  |
|-----------------------|-----------------------|-----------------|----------|----------------------------------------------------------------------------|--|
| 105                   | 130                   | 205             | 65       | Surcharge - late filing fee or oath                                        |  |
| 127                   | 50                    | 227             | 25       | Surcharge - late provisional filing fee or cover sheet                     |  |
| 139                   | 130                   | 139             | 130      | Non-English specification                                                  |  |
| 147                   | 2,520                 | 147             | 2,520    | For filing a request for <i>ex parte</i> reexamination                     |  |
| 112                   | 920*                  | 112             | 920*     | Requesting publication of SIR prior to Examiner action                     |  |
| 113                   | 1,840*                | 113             | 1,840*   | Requesting publication of SIR after Examiner action                        |  |
| 115                   | 110                   | 215             | 55       | Extension for reply within first month                                     |  |
| 116                   | 390                   | 216             | 195      | Extension for reply within second month                                    |  |
| 117                   | 890                   | 217             | 445      | Extension for reply within third month                                     |  |
| 118                   | 1,390                 | 218             | 695      | Extension for reply within fourth month                                    |  |
| 128                   | 1,890                 | 228             | 945      | Extension for reply within fifth month                                     |  |
| 119                   | 310                   | 219             | 155      | Notice of Appeal                                                           |  |
| 120                   | 310                   | 220             | 155      | Filing a brief in support of an appeal                                     |  |
| 121                   | 270                   | 221             | 135      | Request for oral hearing                                                   |  |
| 138                   | 1,510                 | 138             | 1,510    | Petition to institute a public use proceeding                              |  |
| 140                   | 110                   | 240             | 55       | Petition to revive - unavoidable                                           |  |
| 141                   | 1,240                 | 241             | 620      | Petition to revive - unintentional                                         |  |
| 142                   | 1,240                 | 242             | 620      | Utility issue fee (or reissue)                                             |  |
| 143                   | 440                   | 243             | 220      | Design issue fee                                                           |  |
| 144                   | 600                   | 244             | 300      | Plant issue fee                                                            |  |
| 122                   | 130                   | 122             | 130      | Petitions to the Commissioner                                              |  |
| 123                   | 50                    | 123             | 50       | Processing fee under 37 CFR 1.17(q)                                        |  |
| 126                   | 180                   | 126             | 180      | Submission of Information Disclosure Stmt                                  |  |
| 581                   | 40                    | 581             | 40       | Recording each patent assignment per property (times number of properties) |  |
| 146                   | 710                   | 246             | 355      | Filing a submission after final rejection (37 CFR § 1.129(a))              |  |
| 149                   | 710                   | 249             | 355      | For each additional invention to be examined (37 CFR § 1.129(b))           |  |
| 179                   | 710                   | 279             | 355      | Request for Continued Examination (RCE)                                    |  |
| 169                   | 900                   | 169             | 900      | Request for expedited examination of a design application                  |  |

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0.00)

**SUBMITTED BY**

Name (Print/Type) Jeffrey M. Glabicki, Esquire

Registration No.  
(Attorney/Agent)

42,584

**Complete (if applicable)**

Telephone 215-568-6400

Signature

Date 2/15/01

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Express Mail Label No. EL750966957US  
**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Misra et al.

**Application No.:** Not Yet Known

**Filed:** Not Yet Known

**For:** MULTI-USER DETECTION USING AN  
ADAPTIVE COMBINATION OF JOINT  
DETECTION AND SUCCESSIVE  
INTERFERENCE CANCELLATION

**Group:** Not Yet Known

**Examiner:** Not Yet Known

Our File: I-2-156.2US

Date: February 15, 2001

**COMMUNICATION RE ORDER OF APPLICANTS**

Box PATENT APPLICATION

Commissioner for Patents

Washington, D.C. 20231

Sir:

In connection with executed declarations by Applicants/Inventors Misra, Zeira and Pan, it is agreed and requested that Raj Mani Misra is to be the first identified applicant, Jung-Lin Pan is to be the second identified applicant and Ariela Zeira is to be the third identified applicant in the above-identified application.

Respectfully submitted,

Misra et al.

By 

Jeffrey M. Glabicki, Esquire

Registration No. 42,584

(215) 568-6400

Volpe and Koenig, P.C.

400 One Penn Center

1617 John F. Kennedy Boulevard

Philadelphia, PA 19103

JMG/lma